

Product Description Document

Extreme Wind Warning in IBW Format

June 2020

Part I - Mission Connection

- a. Product Description – As part of the ongoing National Weather Service (NWS) Hazard Simplification effort, the NWS is soliciting comments on proposed changes to the Extreme Wind Warning (EWW) text product to align with the Impact-Based Warning (IBW) format currently used in other NWS warning products such as tornado and flash flood warnings. This consistent bulleted format will provide easy to read information describing the hazard (extreme hurricane winds of 115 MPH or greater), the source of the information (e.g., radar, surface observation, etc.), and a brief description of the impact of the hazard. The IBW format also includes machine-readable tags to characterize the extreme wind damage threat, source information, and causative event.
- b. Purpose – This effort is a subset of the overall NWS Hazard Simplification (Haz Simp) project. This product enhances NWS services by improving the consistency and clarity of the product formatting and by characterizing the damage threat, identified source, and cause of the flash flood in machine-readable tags.

WFO forecasters issue short duration EWW products to provide the public with advance notice of the onset of extreme sustained winds of a major hurricane (category 3 or higher), usually associated with the eyewall of a hurricane. EWWs inform the public of the need to take immediate shelter in an interior portion of a well- built structure due to the onset of extreme tropical cyclone winds.

- c. Audience - The target audiences for this product include members of the public expected to be in the path of major hurricane-force winds as well as customers and partners such as emergency managers, state and local officials, Departments of Transportation (DOTs), and media. Pacific basin WFOs do not issue EWW products. A map of the Atlantic WFOs that have the ability to issue EWWs can be found here:

https://www.nhc.noaa.gov/easfaq/images/eww_offices.png

- d. Presentation Format – These are text-based products which trigger alerts on the Watch, Warning, and Advisory page on weather.gov and all other standard dissemination methods. They are sent via NOAA Weather Radio, Emergency Alert System, and Wireless Emergency Alert.

- f. Feedback Method - Feedback may be addressed to:

Jessica Schauer
NWS Tropical Services Program Leader
Miami, FL 33165
Tropical.Program@noaa.gov

Part II - Technical Description

- Format & Science Basis - An EWW for extreme tropical cyclone winds should be issued for Atlantic basin tropical cyclones when both of the following criteria are met:
 - Tropical cyclone is a category 3 or greater on the Saffir Simpson Hurricane WindScale as designated by NHC.
 - Sustained tropical cyclone surface winds of 100 knots (115 mph) or greater are occurring or are expected to occur in a WFO's CWA within one hour.

With this proposed change to an IBW format, the NWS is aiming to improve the public response to EWWs by providing easily readable information in a format that is consistent with other NWS warning products.

- Product Availability – The EWW product is currently available whenever criteria are met. If the proposal to move to an IBW format is approved, the NWS plans to implement the change at the beginning of an upcoming Atlantic hurricane season. A Service Change Notice will be issued to announce any approved change within the timeframe outlined in NWSI 10-1805.
- Additional Information – Product examples are provided below. A full description of operational NWS Tropical Cyclone Forecast Center Products is provided in NWSI 10-607, which is available on the Internet at:

<https://www.nws.noaa.gov/directives/010/010.php>

Examples

NEW EWW Example

WFUS52 KFFC 130823
EWWFFC
GAC163-303-130900-
/O.NEW.KFFC.EW.W.0036.200413T0823Z-200413T0900Z/

BULLETIN - EAS ACTIVATION REQUESTED
Extreme Wind Warning
National Weather Service Peachtree City GA
423 AM EDT Mon Aug 13 2020

...TAKE COVER NOW FROM LIFE-THREATENING WINDS WITH HURRICANE **[NAME]**...

The National Weather Service in Peachtree City has issued a

* Extreme Wind Warning for...
Southeastern Washington County in east central Georgia...
Central Jefferson County in east central Georgia...

* Until 500 PM EDT.

* At 423 PM EDT, the strongest winds from Hurricane **[NAME]** are imminent.
THIS IS AN EXTREMELY DANGEROUS AND LIFE-THREATENING SITUATION!

HAZARD...Extreme hurricane winds over 115 mph.

SOURCE...**[MENU OPTIONS: Radar observations*, Surface observations, Satellite observations]**

IMPACT...TAKE COVER NOW! Move immediately to the safe room in your shelter
to protect yourself from flying debris. Well-built structures
can sustain severe damage with loss of most of the roof and/or some
exterior walls.

* Locations impacted include...
Louisville, Davisboro, Riddleville and Moxley.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

The safest place to be during a major landfalling hurricane is in a
reinforced interior room away from windows. Get under a table or
other piece of sturdy furniture. Use mattresses, blankets or pillows
to cover your head and body. Remain in place through the passage of
these life-threatening conditions.

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LAT...LON 3284 8264 3291 8269 3310 8246 3294 8232
TIME...MOT...LOC 0823Z 240DEG 49KT 3290 8262

EXTREME WIND...OBSERVED
EXTREME WIND THREAT...CATASTROPHIC
MAX WIND...> 115 MPH

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CON EWW Example

WWUS52 KCHS 131054
SVSCHS

Severe Weather Statement
National Weather Service Charleston, SC
654 AM EDT Mon Apr 13 2020

SCC029-131115-
/O.CON.KCHS.EW.W.0006.000000T0000Z-200413T1115Z/
Colleton SC-
654 AM EDT Mon Apr 13 2020

...AN EXTREME WIND WARNING REMAINS IN EFFECT UNTIL [TIME] FOR [COUNTIES/PARISHES]...

At 653 AM EDT, National Weather Service Doppler radar indicated extreme winds associated with Hurricane [NAME] were continuing to move inland. This is a PARTICULARLY DANGEROUS SITUATION. TAKE COVER NOW!

HAZARD...Extreme hurricane winds in excess of over 115 mph.

SOURCE...[MENU OPTIONS: Radar observations*, Surface observations, Satellite observations
* = default menu option]

IMPACT...TAKE COVER NOW! Move immediately to the safe room in your shelter to protect yourself from flying debris. Well-built structures can sustain severe damage with loss of most of the roof and/or some exterior walls.

Locations impacted include...
Walterboro and Round O.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

The safest place to be during a major landfalling hurricane is in a reinforced interior room away from windows. Get under a table or other piece of sturdy furniture. Use mattresses, blankets or pillows to cover your head and body. Remain in place through the passage of these life-threatening conditions.

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LAT...LON 3284 8078 3293 8078 3306 8059 3306 8055
3307 8053 3286 8049
TIME...MOT...LOC 1053Z 248DEG 44KT 3291 8068

EXTREME WIND...OBSERVED
EXTREME WIND THREAT...CATASTROPHIC
MAX WIND...> 115 MPH

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EXP EWW Example

WWUS52 KTAE 102229
SVSTAE

Severe Weather Statement
National Weather Service Tallahassee FL
Issued by National Weather Service Jacksonville FL
629 PM EDT WED OCT 10 2018

ALC069-GAC087-099-201-253-102238-
/O.EXP.KTAE.EW.W.0004.000000T0000Z-181010T2230Z/
Houston AL-Decatur GA-Miller GA-Early GA-Seminole GA-
629 PM EDT WED OCT 10 2018

...THE EXTREME WIND WARNING FOR NORTHEASTERN HOUSTON...NORTH CENTRAL
DECATUR...MILLER...SOUTHERN EARLY AND NORTHERN SEMINOLE COUNTIES WILL
EXPIRE AT 630 PM EDT/530 PM CDT/...

A Hurricane Warning remains in effect in these areas.

LAT...LON 3129 8464 3126 8464 3126 8460 3124 8454
3081 8466 3105 8496 3105 8509 3131 8528
TIME...MOT...LOC 2228Z 207DEG 16KT 3124 8488

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PETERSON

CAN EWW Example

WWUS52 KTAE 102131
SVSTAE

Severe Weather Statement
National Weather Service Tallahassee FL
Issued by National Weather Service Jacksonville FL
531 PM EDT WED OCT 10 2018

FLC063-102138-
/O.CAN.KTAE.EW.W.0004.000000T0000Z-181010T2230Z/
Jackson FL-
531 PM EDT WED OCT 10 2018

...THE EXTREME WIND WARNING FOR NORTHEASTERN JACKSON COUNTY IS
CANCELLED...

A Hurricane Warning remains in effect in these areas.

LAT...LON 3129 8464 3126 8464 3126 8460 3124 8454
3081 8466 3105 8496 3105 8509 3131 8528
TIME...MOT...LOC 2128Z 207DEG 16KT 3102 8501

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